

		DATA SHEET of AC INDUCTION MOTOR				150 HP - 6 P TE		
						DESIGN NO : KS C4202-1996		
Model No.or RFQ No.		Item No.		Rev. No.		[0]		
Project Name		Project No.		Quantity :				
GENERAL SPECIFICATION				PERFORMANCE DATA				
Frame No.		280M		Output		150 HP 110 KW		
Type		TNB		Poles		6 P		
Enclosure(Protection)		Totally Enclosed (IP IP54)		Rotor Type		Squirrel Cage		
Cooling Method		IC411(FC)		Starting Method(*)		☒ D.O.L. ☐ Y-Δ		
Frequency		60 Hz		Rated Voltage		440 V 380 V 220 V		
Phase		3 Φ		Current		Rated Load		
Insulation Class		☒ F ☐ B ☐ H				Start'g-D.O.L.		
Temp. Rise at full load (by resistance method)		at 1.0 S.F 105 °C		Efficiency				
Location		☐ Indoor ☐ Outdoor		50% Load		92.2 %		
Altitude		Less than 1000 meter		75% Load		93.1 %		
Humidity		Less than 80 %		100% Load		93.0 %		
Ambient Temp.		40 °C (Max.)		Power Factor				
Duty		CONT.(S1)		50% Load		79.5 %		
Service Factor		1.00		75% Load		84.0 %		
Electric Design		NEMA Design B		100% Load		86.0 %		
Construction		☐ B3 ☐ B5 ☐ V1 ☐		Speed at Rated Load		1180 RPM / SLIP 1.67 %		
Bearing Type Anti-friction DE/ODE 6318C3 \ 6316C3 Lubricant GREASE(ALVANIA#2)		Torque (D.O.L)		Rated		90.8 Kg.m 100 %		
		Starting		118.0 Kg.m 130 %				
		Break down		181.6 Kg.m 200 %				
External Thrust		Not applicable		Allowable Load GD ² referred to motor shaft		713.000 Kg.m ²		
Coupling Method		☒ Direct ☐ V-Belt		Motor GD ²		16.190 Kg.m ²		
Shaft Extension		☒ Single ☐ Double		Noise Level (dB(A))		82 dB(A) at 1m from motor(No-load)		
Terminal Box Main ☐ Steel ☒ Cast Iron Aux. ☐ Yes ☒ No Location ☒ Left ☐ Right (Viewed from Drive End)		Vibration(Velocity)		3.8 mm/sec.(peak)				
		Starting Duty		Cold 2 times \ Hot 1 time				
		Paint		Munsell No. 4.0PB5.4/5.5(VL-451)				
Application				SUBMITTAL DRAWING				
Area Classification		Not applicable		Outline Dimension Drawing \ Motor Weight(Approx.)				
Applicable Standard		KS		☐ B3		TJ8MAP51 790 Kg		
Inspection and Performance Test HHI Stand. Maker Test Report		☐ B5		TJ80BP51 830 Kg				
		☐ V1		TJ80PP51 830 Kg				
ACCESSORIES(OPTION ITEM)				Main T-Box Ass'y 3M-016882				
SPARE PARTS				REMARK				
Note: Others not mentioned in this specification shall be in accordance with HHI standard. Above technical data are only design values and shall be guaranteed with tolerance of applicable standard.				Date	DSND	CHKD	CHKD	APPD
				2004.01.27	KIM R.G.		KIM O.J.	KANG K.G.

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		TEFC THREE PHASE INDUCTION MOTOR	TYPE (1) TNB , TDB CAST IRON FRAME																																								
NOTE 1.TOLERANCE : <table border="1"><tr><td>RABBET DIAMETER</td><td>ø550js6</td><td>±0.022</td></tr><tr><td>SHAFT DIAMETER</td><td>ø85m6</td><td>+0.035 +0.013</td></tr><tr><td>KEYWAY WIDTH</td><td>22P9</td><td>-0.022 -0.074</td></tr><tr><td>KEYWAY DEPTH</td><td>9</td><td>+0.2 0</td></tr></table> 2.The type (1)-"TNB , TDB" is for HHI's standard products and it can be changed for customer's requirements or detail designing.				RABBET DIAMETER	ø550js6	±0.022	SHAFT DIAMETER	ø85m6	+0.035 +0.013	KEYWAY WIDTH	22P9	-0.022 -0.074	KEYWAY DEPTH	9	+0.2 0																												
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HYUNDAI

HEAVY INDUSTRIES CO., LTD

PERFORMANCE CURVE

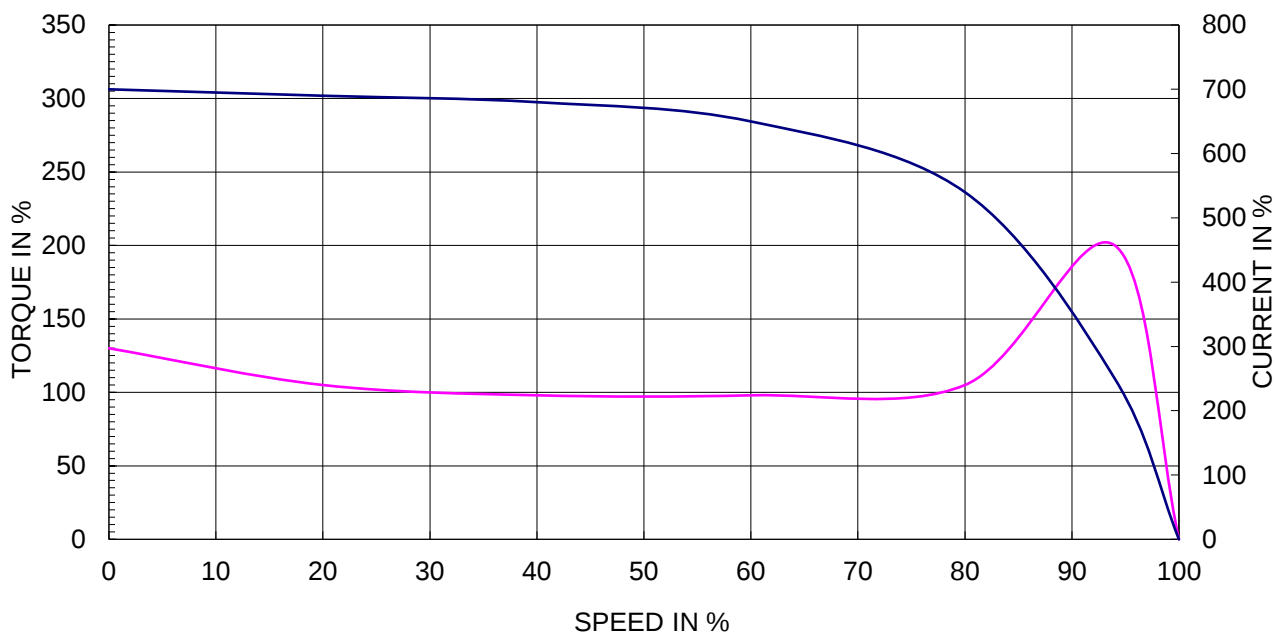
CURVE NO.

P-TNBJ8M06110

TYPE :		
RATED TORQUE :	90.8	Kg.m
GD2 OF MOTOR :	16.2	Kg.m ²
(ALLOWABLE) GD2 OF LOA	713.0	Kg.m ²

110 kW	6 P	60 Hz
RATED SPEED :	1180 RPM	
VOLTAGE	440V	380 V
RATED CURRENT	180.5A	209.0 A
		360.9A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

